

## EAST Search History

| Ref # | Hits | Search Query   | DBs                   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|-----------------------|------------------|---------|------------------|
| S1    | 18   | (US-20050005128-\$ or US-20020010679-\$).did. or (US-6282649-\$ or US-7047422-\$ or US-5742756-\$ or US-5534855-\$ or US-5649185-\$ or US-5657388-\$ or US-6539380-\$ or US-6615264-\$ or US-6049877-\$ or US-5915019-\$ or US-5910987-\$ or US-5893087-\$ or US-5729730-\$ or US-5907621-\$ or US-6193153-\$).did. or (EP-204994-\$).did. | US-PGPUB ; USPAT; EPO | OR               | ON      | 2007/02/05 10:52 |
| S2    | 17   | S1 and (user near9 (table or array or list or application or module))  | US-PGPUB ; USPAT; EPO | OR               | ON      | 2007/02/05 11:27 |
| S3    | 3    | S1 and (user near2 right near7 table)  | US-PGPUB ; USPAT; EPO | OR               | ON      | 2007/02/05 11:27 |
| S4    | 18   | (US-20050005128-\$ or US-20020010679-\$).did. or (US-6282649-\$ or US-7047422-\$ or US-5742756-\$ or US-5534855-\$ or US-5649185-\$ or US-5657388-\$ or US-6539380-\$ or US-6615264-\$ or US-6049877-\$ or US-5915019-\$ or US-5910987-\$ or US-5893087-\$ or US-5729730-\$ or US-5907621-\$ or US-6193153-\$).did. or (EP-204994-\$).did. | US-PGPUB ; USPAT; EPO | OR               | ON      | 2007/02/08 09:07 |
| S6    | 17   | S4 and (user near9 (table or array or list or application or module))  | US-PGPUB ; USPAT; EPO | OR               | ON      | 2007/02/08 08:28 |
| S7    | 3    | S4 and (user near2 right near7 table)  | US-PGPUB ; USPAT; EPO | OR               | ON      | 2007/02/08 08:29 |
| S11   | 3    | S7 and (user near2 right near7 table) and decrypt\$4   | US-PGPUB ; USPAT; EPO | OR               | ON      | 2007/02/08 08:35 |
| S12   | 2    | S7 and (user near2 right near7 table) same decrypt\$4  | US-PGPUB ; USPAT; EPO | OR               | ON      | 2007/02/08 08:35 |

## EAST Search History

|     |       |   |                             |    |     |                     |
|-----|-------|---|-----------------------------|----|-----|---------------------|
| S13 | 18    | S4 and (table or database or (data adj base) or (data adj stor\$4) or (stor\$4 adj data))                           | US-PGPUB<br>; USPAT;<br>EPO | OR | ON  | 2007/02/08<br>09:14 |
| S14 | 18    | S4 and (table or database or (data adj base) or (data adj stor\$4) or (stor\$4 adj data) or directory)              | US-PGPUB<br>; USPAT;<br>EPO | OR | ON  | 2007/02/08<br>09:15 |
| S15 | 18    | S4 and ((table or database or (data adj base) or (data adj stor\$4) or (stor\$4 adj data) or directory) same user)  | US-PGPUB<br>; USPAT;<br>EPO | OR | ON  | 2007/02/08<br>09:15 |
| S16 | 16    | S4 and ((table or database or (data adj base) or (data adj stor\$4) or (stor\$4 adj data) or directory) with user)  | US-PGPUB<br>; USPAT;<br>EPO | OR | ON  | 2007/02/08<br>09:15 |
| S17 | 15    | S4 and ((table or database or (data adj base) or (data adj stor\$4) or (stor\$4 adj data) or directory) near9 user) | US-PGPUB<br>; USPAT;<br>EPO | OR | ON  | 2007/02/08<br>09:29 |
| S18 | 5     | S17 and ATM   | US-PGPUB<br>; USPAT;<br>EPO | OR | ON  | 2007/02/08<br>10:21 |
| S19 | 2     | ("6078586" or "5764789").pn.  | US-PGPUB<br>; USPAT;<br>EPO | OR | ON  | 2007/02/08<br>10:16 |
| S23 | 5     | S13 and (automat\$3 adj teller adj machine)   | US-PGPUB<br>; USPAT;<br>EPO | OR | ON  | 2007/02/08<br>10:22 |
| S24 | 5     | S17 and (automat\$3 adj teller adj machine)   | US-PGPUB<br>; USPAT;<br>EPO | OR | ON  | 2007/02/08<br>10:46 |
| S25 | 26    | (automat\$3 adj teller).ti. and ((user or account) with (table or database))  | US-PGPUB<br>; USPAT;<br>EPO | OR | ON  | 2007/02/08<br>14:02 |
| S26 | 18    | (automat\$3 adj teller).ti. and ((users or (account adj holders)) with (table or database))                         | US-PGPUB<br>; USPAT;<br>EPO | OR | ON  | 2007/02/08<br>14:03 |
| S28 | 5     | (automat\$3 adj teller).ti. and ((users or (account adj holders)) with (table or database))                         | US-PGPUB<br>; USPAT;<br>EPO | OR | OFF | 2007/02/08<br>14:06 |
| S29 | 32909 | ((users or (account adj holders)) with (table or database))   | US-PGPUB<br>; USPAT;<br>EPO | OR | OFF | 2007/02/08<br>14:07 |
| S30 | 3249  | S29 and (search\$4 or sort\$4 or compar\$5 or verif\$8) and decrypt\$4  | US-PGPUB<br>; USPAT;<br>EPO | OR | OFF | 2007/02/08<br>14:09 |

## EAST Search History

|     |              |  |  |    |     |                     |
|-----|--------------|--|--|----|-----|---------------------|
| S31 | 89           | S29 same (search\$4 or sort\$4 or compar\$5 or verif\$8) same decrypt\$4 | US-PGPUB<br>; USPAT;<br>EPO  | OR | OFF | 2007/02/08<br>14:09 |
| S32 | 19           | S29 with (search\$4 or sort\$4 or compar\$5 or verif\$8) with decrypt\$4 | US-PGPUB<br>; USPAT;<br>EPO  | OR | OFF | 2007/02/08<br>14:09 |
| S34 | 2036         | 713/182-186.ccls. or 705/15-18.ccls.                                     | USPAT  | OR | ON  | 2007/02/08<br>15:08 |
| S35 | 365          | S34 and (access adj control)   | USPAT  | OR | ON  | 2007/02/08<br>15:09 |
| S36 | 248          | S35 and (list or table)  | USPAT  | OR | ON  | 2007/02/08<br>15:09 |
| S37 | 88           | S35 and ((list or table) near4 user)                                     | USPAT  | OR | ON  | 2007/02/08<br>15:10 |
| S38 | 49           | S37 and decrypt\$4   | USPAT  | OR | ON  | 2007/02/08<br>15:10 |
| S39 | 3771620      | @prad<"20031030"<br>@rlad<"20031030"<br>@ad<"20031030"                   | USPAT  | OR | ON  | 2007/02/08<br>15:07 |
| S40 | 4441         | 713/182-186.ccls. or 705/15-18.ccls.                                     | US-PGPUB<br>; USPAT;<br>FPRS; EPO;<br>JPO;<br>DERWENT<br>; IBM_TDB | OR | ON  | 2007/02/08<br>15:08 |
| S41 | 2848624<br>8 | @prad<"20031030"<br>@rlad<"20031030"<br>@ad<"20031030"                   | US-PGPUB<br>; USPAT;<br>FPRS; EPO;<br>JPO;<br>DERWENT<br>; IBM_TDB | OR | ON  | 2007/02/08<br>15:09 |
| S42 | 3746         | S40 and S41  | US-PGPUB<br>; USPAT;<br>FPRS; EPO;<br>JPO;<br>DERWENT<br>; IBM_TDB | OR | ON  | 2007/02/08<br>15:09 |
| S43 | 364          | S42 and (access adj control)   | USPAT  | OR | ON  | 2007/02/08<br>15:09 |
| S44 | 247          | S43 and (list or table)  | USPAT  | OR | ON  | 2007/02/08<br>15:09 |
| S45 | 88           | S43 and ((list or table) near4 user)                                     | USPAT  | OR | ON  | 2007/02/08<br>15:10 |
| S46 | 49           | S45 and decrypt\$4   | USPAT  | OR | ON  | 2007/02/08<br>17:02 |

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|     |      |   |       |    |    |                     |
|-----|------|---|-------|----|----|---------------------|
| S47 | 6907 | user adj specific                       | USPAT | OR | ON | 2007/02/08<br>17:02 |
| S48 | 7    | user adj specific adj table             | USPAT | OR | ON | 2007/02/08<br>17:03 |
| S49 | 7    | S48 and S41                             | USPAT | OR | ON | 2007/02/08<br>17:13 |
| S50 | 4    | decrypt\$4 near9 (address adj<br>book)  | USPAT | OR | ON | 2007/02/08<br>17:18 |
| S51 | 4    | S50 and S41                             | USPAT | OR | ON | 2007/02/08<br>17:14 |
| S52 | 234  | decrypt\$4 near9 (account)              | USPAT | OR | ON | 2007/02/08<br>17:18 |
| S53 | 233  | S52 and S41                             | USPAT | OR | ON | 2007/02/08<br>17:20 |
| S54 | 60   | S53 and ((list or table) near4<br>user) | USPAT | OR | ON | 2007/02/08<br>17:21 |

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| Ref # | Hits    | Search Query   | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|---------|--|--|------------------|---------|---------------------|
| L1    | 4715812 | "15" not (international adj business adj machines adj corporation).as.   | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/02/24<br>07:57 |
| L2    | 47708   | 713/182-186.ccls. 726/1-10.ccls.<br>726/16-21.ccls. 726/26-30.ccls.<br>705/50-51.ccls. 705/64-76.ccls.<br>705/1-11.ccls. 705/15-18.ccls.<br>705/26-29.ccls. 705/30-44.ccls.  | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/02/24<br>07:57 |
| L3    | 38733   | ((@prad<"20031030"<br>@rlad<"20031030"<br>@ad<"20031030") and L2   | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/02/24<br>07:57 |
| L4    | 28      | L3 and ((user\$4 near3<br>request\$4) same (((table or<br>database or list or record or file)<br>adj \$2crypt\$4) or (\$2crypt\$4 adj<br>(table or database or list or<br>record or file)))) same<br>authenticat\$5) | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/02/24<br>07:57 |
| L5    | 27      | 4 not (international adj business<br>adj machines adj corporation).<br>as.   | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/02/24<br>08:12 |
| L6    | 1       | "5629980".pn.  | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/02/24<br>08:13 |
| L8    | 329     | (software adj token) or<br>((two\$factor or two adj factor)<br>adj authentication)   | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/02/24<br>10:02 |
| L9    | 96      | 8 and 3  | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/02/24<br>09:37 |
| L11   | 3       | 9 and 5  | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/02/24<br>09:37 |
| S1    | 47708   | 713/182-186.ccls. 726/1-10.ccls.<br>726/16-21.ccls. 726/26-30.ccls.<br>705/50-51.ccls. 705/64-76.ccls.<br>705/1-11.ccls. 705/15-18.ccls.<br>705/26-29.ccls. 705/30-44.ccls.  | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/02/23<br>11:43 |

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|     |       |  |  |    |    |                     |
|-----|-------|--|--|----|----|---------------------|
| S2  | 38733 | ((@prad<"20031030"<br>@rlad<"20031030"<br>@ad<"20031030") and S1   | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>11:45 |
| S3  | 12    | S2 and ((user\$4 near3<br>request\$4) near9 ((table or<br>database or list) near4<br>\$2crypt\$4) and authenticat\$5)                      | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>16:21 |
| S4  | 2     | S2 and ((authenticat\$5 near9<br>(user\$4 near3 request\$4) near9<br>((table or database or list) near4<br>\$2crypt\$4)))                  | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>11:59 |
| S5  | 2     | S2 and (authenticat\$5 near9<br>((user\$4 near3 request\$4) near9<br>((table or database or list) near4<br>\$2crypt\$4)))                  | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>11:58 |
| S6  | 2     | S2 and (((authenticat\$5 near9<br>user\$4 near3 request\$4) near9<br>((table or database or list) near4<br>\$2crypt\$4)))                  | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>11:58 |
| S7  | 5     | S2 and ((authenticat\$5 same<br>(user\$4 near3 request\$4) near9<br>((table or database or list) near4<br>\$2crypt\$4)))                   | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>11:59 |
| S8  | 14    | S2 and ((user\$4 near3<br>request\$4) same ((table or<br>database or list) near4<br>\$2crypt\$4) same authenticat\$5)                      | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>16:22 |
| S9  | 9     | S8 and (encrypt\$3 adj (record or<br>file or data))  | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>16:21 |
| S10 | 9     | S8 and (encrypt\$3 adj (record or<br>file or data or table))   | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>16:21 |
| S11 | 9     | S8 and (encrypt\$3 adj (record or<br>file or data or table or database<br>or list))  | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>16:22 |
| S12 | 38    | S2 and ((user\$4 near3<br>request\$4) near9 ((table or<br>database or list or record or file)<br>near4 \$2crypt\$4) and<br>authenticat\$5) | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>16:21 |

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|-----|----|--|--|----|----|---------------------|
| S13 | 67 | S2 and ((user\$4 near3 request\$4) same ((table or database or list or record or file) near4 \$2crypt\$4) same authenticat\$5)   | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>16:27 |
| S14 | 59 | (S12 or S13) and (encrypt\$3 adj (record or file or data or table or database or list))  | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/23<br>16:23 |
| S15 | 28 | S2 and ((user\$4 near3 request\$4) same (((table or database or list or record or file) adj \$2crypt\$4) or (\$2crypt\$4 adj (table or database or list or record or file)))) same authenticat\$5) | US-PGPUB<br>; USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2007/02/24<br>07:55 |



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All Results

Motorola, Inc

T Jack

D Chadwick

P Kennedy

T Hall

Smart cards aren't always the smart choice - group of 8 »

D Chadwick - Computer, 1999 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... The benefits of using a smart card as opposed to a **software token** include ... is a decreased possibility of copy- ing the smart card's **private key** because it ...

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Radio telecommunication device and method of authenticating a user with a voice authentication token - group of 2 »

PR Kennedy, TG Hall, WC Yip - US Patent 6,084,967, 2000 - Google Patents

... In this embodiment, the **software token** securely contains the information that would be embodied ... The access data is encrypted in a **private key** known only to the ...

[Cited by 13](#) - [Related Articles](#) - [Web Search](#)

Digital signature algorithm for securing digital identities - group of 5 »

T Kwon - Information Processing Letters, 2002 - 140.134.25.71

... the pure **private key** while other storage devices not having hardware protection mechanisms duplicatively store the encrypted **private key** as a **software token**. ...

[Cited by 6](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Single sign-on architectures - group of 6 »

J De Clercq - Infrastructure Security, International Conference, InfraSec, 2002 - Springer

... If their authentication credentials are valid they receive a ticket (the **software token**). ... s public **key** certificate and the user's **private key** are cached on ...

[Cited by 14](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Secure wireless electronic-commerce system with digital product certificates and digital license ... - group of 3 »

LC Puhl, DH Vogler, EA Dabbish - US Patent 6,223,291, 2001 - Google Patents

... signed with the CA's **private key**. Anyone who has the public **key** for the CA will be able to verify the encrypted hash. Subsequently ...

[Cited by 17](#) - [Related Articles](#) - [Web Search](#)

Method and apparatus for secure distribution of authentication credentials to roaming users - group of 3 »

BN Kausik, R Varadarajan - US Patent 6,263,446, 2001 - Google Patents

... One such **software token** is the so-called software wallet, in which the **private key** is encrypted with a password or other access-controlled datum. ...

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Security token and method for wireless applications - group of 3 »

PR Kennedy, TG Hall, DA Hardy - US Patent 6,084,968, 2000 - Google Patents

... The **software token** securely contains the information that would otherwise be embodied in a ... are super encrypted, first with a universal **private key** and secondly ...

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

Combining World Wide Web and wireless security - group of 12 »

J Claessens, B Preneel, J Vandewalle - Informatica, 2002 - [cosic.esat.kuleuven.ac.be](http://cosic.esat.kuleuven.ac.be)

... TLS client authentication, for SET, or for digitally signing documents – the **private key** will mostly ... Users with such a **software token** are also hardly mobile ...

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### Design and Implementation of a Secure, Remote PKI Key Management System

WE Freeman, MA Bellmore, KW Aull, TC Kerr - Technology Review, 2002 - ms.northropgrumman.com

... been a push to migrate PKI implementations from the old **software token** (keys stored ... First is the problem of installing a new **private key** onto the trusted PKI ...

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### Method and system for customizing marketing services on networks communicating with hypertext ... - group of 4 »

WJ Tobin - US Patent 6,141,666, 2000 - Google Patents

Page 1. [21] Appi. No.: 08/785,321 [22] Filed: Jan. 21, 1997 [60] [51] [52] [58]

[56] Related US Application Data Provisional application No. 60/017,229, Jan. ...

[Cited by 19](#) - [Related Articles](#) - [Web Search](#)

### Secure wireless electronic-commerce system with wireless network domain - group of 3 »

RL Geiger, JH Lin, R Mehta - US Patent 6,463,534, 2002 - Google Patents

... In this model the CA is the trusted certifying authority. That is, the previously mentioned hash result is signed with the CA's **private key**. ...

[Cited by 10](#) - [Related Articles](#) - [Web Search](#)

### Methods and arrangements for mapping widely disparate portable tokens to a static machine concentric ... - group of 4 »

DC Barlow - US Patent 6,484,259, 2002 - Google Patents

... is assumed that CSPs242 are operatively arranged to support functions provided by one or more static hardware/**software token** devices ... 2) secure **private key** storage ...

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### A context-related authorization and access control method based on RBAC

M Wilikens, S Feriti, A Sanna, M Masera - Proceedings of the seventh ACM symposium on Access control ..., 2002 - portal.acm.org

... Smart Card: Hardware/**software token** to store in a secure ... These include: user's **private key**, certificate and PIN number. Certificates generation DRIVE CA ...

[Cited by 22](#) - [Related Articles](#) - [Web Search](#)

### Systems, methods and computer program products for sharing state information between a stateless ... - group of 3 »

JG White - US Patent 6,065,117, 2000 - Google Patents

... A **software token** containing state information is exchanged between ... that is used for symmetric **key** generation ... Internet, and **private** networks often referred to ...

[Cited by 11](#) - [Related Articles](#) - [Web Search](#)

### Awareness and challenges of Internet security Steve Hawkins, David C. Yen, David C. Chou The Authors - group of 5 »

S Hawkins, DC Yen - Information Management & Computer Security, 2000 - emeraldinsight.com

... This type of **key** management technology uses a ... Recruiting educators in the **private** sector who have ... user connects with the server, a **software token** is activated ...

[Cited by 9](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

### The second generation of digital commerce solutions - group of 4 »

S Mott - Computer Networks, 2000 - Elsevier

... users over corporate Virtual **Private** Networks (VPNs ... Further, **key** Onet products ± especially digital content ... Maybe the **software token** could be replaced with ...

[Cited by 5](#) - [Related Articles](#) - [Web Search](#)

**ARMADA Middleware and Communication Services - group of 13 »**

T Abdelzaher, S Dawson, WC Feng, F Jahanian, S ... - Real-Time Systems, 1999 - Springer  
... **Key** challenges addressed by the ARMADA project include: timely delivery of services  
with end-to-end soft/hard real-time constraints; dependability of services ...

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**[BOOK] Operating Systems and Services**

R Rajkumar - 1999 - books.google.com

... **Key** challenges addressed by the ARMADA project include: timely delivery of services  
with end-to-end soft/hard real-time constraints; dependability of services ...

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**[PS] EtheReal: A Transparent Mechanism for Bandwidth Guarantees over Switched Ethernet Networks**

S Varadarajan - DCS State University of New York, 1998 - ecsl.cs.sunysb.edu

... In this mode, it operates as a token bus. A **software token** circulates around  
the network traversing each host, within a fixed cycle time. ...

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**EtheReal: A Fault Tolerant Host-Transparent Mechanism for Bandwidth Guarantees over Switched ...**

S VARADARAJAN - 2000 - ecsl.cs.sunysb.edu

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over Switched Ethernet Networks A DISSERTATION PRESENTED BY ...

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